Geophysical Research Abstracts
Vol. 21, EGU2019-5804, 2019
EGU General Assembly 2019

Activities of Faculty of Technical Sciences within the framework of COST TU1208 Action

Aleksandar Ristic, Milan Vrtunski, Miro Govedarica, and Zeljko Bugarinovic

University of Novi Sad, Faculty of technical sciences, Department of computing and control, Novi Sad, Serbia (aristic@uns.ac.rs)

The aim of COST Action TU1208 was to share and increase scientific-technical knowledge and experience of Ground Penetrating Radar (GPR) techniques in civil engineering, whilst promoting a wider and more effective use of this safe and non-destructive method in the monitoring of structures. The COST Action TU1208 started in April 2013 and ended in October 2017. We were invited to participate in 2014. Our main efforts were directed towards several areas:
- Expanding the network of researchers involved in GPR technology and its applications
- Joint work with other participants on research, implementation of GPR technology and its applications, as well as publishing in conferences and scientific journals
- Participation in founding of TU1208 GPR Association as a follow up initiative of COST Action TU1208. Association is open to experts from all over the world, and its goals are to keep scientific network alive and cohesive, continue the work that was done in the framework of the Action, and further support of cooperation between universities, research centers, private companies and public agencies active in the GPR field.
- Development of "Guideline for the detection and the mapping of underground utilities and voids using Ground Penetrating Radar (GPR), with a particular focus to urban areas". This document incorporates elements from various standards, recommendations and good practice from countries where the usage of GPR technology is regulated and is aimed to represent a basic document for development of standards in countries where GPR technology is fully recognized.
- Participation in GPR antenna testing campaign. Testing was done based on "GPR system performance compliance tests" which were developed within COST TU 1208 Action.
- Development of educational materials "GPR in civil engineering applications - Detection of underground utilities" and "GPR survey – Integration of GPR with other remote sensing technologies" which can be used in introducing of GPR technology to a wider audience.
- Organizing 'GPR Workshop - European experiences, standards and recommendations in application of Ground Penetrating Radar', Road Show event where GPR technology was presented to stakeholders, private companies, professionals and other interested parties.